```
* * * * * * * * * * * * * * STN  Columbus  * * * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 12:16:23 ON 14 OCT 2009

=> fil .bec
COST IN U.S. DOLLARS                                    SINCE FILE      TOTAL
                                                          ENTRY        SESSION
FULL ESTIMATED COST                                        0.22          0.22

FILES 'MEDLINE, SCISEARCH, LIFESCI, BIOTECHDS, BIOSIS, EMBASE, HCAPLUS, NTIS,
       ESBIOBASE, BIOTECHNO, WPIDS' ENTERED AT 12:17:02 ON 14 OCT 2009
ALL COPYRIGHTS AND RESTRICTIONS APPLY.  SEE HELP USAGETERMS FOR DETAILS.

11 FILES IN THE FILE LIST

=> s alpha(w)amylase# and bacillus and (muta? or variant#)
FILE 'MEDLINE'
        673551 ALPHA
         24546 AMYLASE#
          6149 ALPHA(W)AMYLASE#
         61568 BACILLUS
        652014 MUTA?
        148970 VARIANT#
L1         236 ALPHA(W)AMYLASE# AND BACILLUS AND (MUTA? OR VARIANT#)

FILE 'SCISEARCH'
        992217 ALPHA
         22303 AMYLASE#
         10367 ALPHA(W)AMYLASE#
         69014 BACILLUS
        647330 MUTA?
        174018 VARIANT#
L2         376 ALPHA(W)AMYLASE# AND BACILLUS AND (MUTA? OR VARIANT#)

FILE 'LIFESCI'
        234306 ALPHA
          6049 AMYLASE#
          3573 ALPHA(W)AMYLASE#
         36289 BACILLUS
        312912 MUTA?
         58664 VARIANT#
L3         159 ALPHA(W)AMYLASE# AND BACILLUS AND (MUTA? OR VARIANT#)

FILE 'BIOTECHDS'
         38177 ALPHA
          6973 AMYLASE#
          4506 ALPHA(W)AMYLASE#
         21805 BACILLUS
         54015 MUTA?
         19711 VARIANT#
L4         316 ALPHA(W)AMYLASE# AND BACILLUS AND (MUTA? OR VARIANT#)

FILE 'BIOSIS'
        866342 ALPHA
         36303 AMYLASE#
         12773 ALPHA(W)AMYLASE#
        101546 BACILLUS
        718494 MUTA?
        155974 VARIANT#
L5         297 ALPHA(W)AMYLASE# AND BACILLUS AND (MUTA? OR VARIANT#)
```

```
FILE 'EMBASE'
        760485 ALPHA
         19248 AMYLASE#
          4290 ALPHA(W)AMYLASE#
         45768 BACILLUS
        555262 MUTA?
        130584 VARIANT#
L6         167 ALPHA(W)AMYLASE# AND BACILLUS AND (MUTA? OR VARIANT#)

FILE 'HCAPLUS'
       1879819 ALPHA
         54850 AMYLASE#
         23466 ALPHA(W)AMYLASE#
        113641 BACILLUS
        668083 MUTA?
        150168 VARIANT#
L7         599 ALPHA(W)AMYLASE# AND BACILLUS AND (MUTA? OR VARIANT#)

FILE 'NTIS'
         29777 ALPHA
           173 AMYLASE#
            67 ALPHA(W)AMYLASE#
          1917 BACILLUS
         11033 MUTA?
          5138 VARIANT#
L8           1 ALPHA(W)AMYLASE# AND BACILLUS AND (MUTA? OR VARIANT#)

FILE 'ESBIOBASE'
        318957 ALPHA
          6580 AMYLASE#
          3195 ALPHA(W)AMYLASE#
         25702 BACILLUS
        358138 MUTA?
         70044 VARIANT#
L9         115 ALPHA(W)AMYLASE# AND BACILLUS AND (MUTA? OR VARIANT#)

FILE 'BIOTECHNO'
        189431 ALPHA
          4194 AMYLASE#
          2130 ALPHA(W)AMYLASE#
         19958 BACILLUS
        242571 MUTA?
         41198 VARIANT#
L10        108 ALPHA(W)AMYLASE# AND BACILLUS AND (MUTA? OR VARIANT#)

FILE 'WPIDS'
        227753 ALPHA
         11053 AMYLASE#
          4116 ALPHA(W)AMYLASE#
         21995 BACILLUS
         42644 MUTA?
         38708 VARIANT#
L11        189 ALPHA(W)AMYLASE# AND BACILLUS AND (MUTA? OR VARIANT#)

TOTAL FOR ALL FILES
L12       2563 ALPHA(W) AMYLASE# AND BACILLUS AND (MUTA? OR VARIANT#)

=> s (168 or 169 or 170 or 171 or 172 or 173 or 174)(10a)(residue# or position# or
amino acid# or muta?)
FILE 'MEDLINE'
         18857 168
         14686 169
```

```
             28132 170
             14602 171
             15212 172
             14462 173
             16533 174
            239605 RESIDUE#
            279011 POSITION#
            723160 AMINO
           1895511 ACID#
            649895 AMINO ACID#
                      (AMINO(W)ACID#)
            652014 MUTA?
L13           4583 (168 OR 169 OR 170 OR 171 OR 172 OR 173 OR 174)(10A)(RESIDUE#
                   OR POSITION# OR AMINO ACID# OR MUTA?)


FILE 'SCISEARCH'
             16894 168
             12704 169
             33580 170
             12723 171
             13476 172
             13284 173
             13498 174
            261960 RESIDUE#
            405250 POSITION#
            471320 AMINO
           1647984 ACID#
            365731 AMINO ACID#
                      (AMINO(W)ACID#)
            647330 MUTA?
L14           4205 (168 OR 169 OR 170 OR 171 OR 172 OR 173 OR 174)(10A)(RESIDUE#
                   OR POSITION# OR AMINO ACID# OR MUTA?)


FILE 'LIFESCI'
              4024 168
              2677 169
              6980 170
              2531 171
              2767 172
              2517 173
              2956 174
            118339 RESIDUE#
             92693 POSITION#
            212131 "AMINO"
            461847 ACID#
            179584 AMINO ACID#
                      ("AMINO"(W)ACID#)
            312912 MUTA?
L15           2771 (168 OR 169 OR 170 OR 171 OR 172 OR 173 OR 174)(10A)(RESIDUE#
                   OR POSITION# OR AMINO ACID# OR MUTA?)


FILE 'BIOTECHDS'
              1401 168
               761 169
              1887 170
               818 171
               821 172
               772 173
               873 174
             30392 RESIDUE#
             19176 POSITION#
             84588 AMINO
```

```
          182830 ACID#
           78739 AMINO ACID#
                   (AMINO(W)ACID#)
           54015 MUTA?
L16         1719 (168 OR 169 OR 170 OR 171 OR 172 OR 173 OR 174)(10A)(RESIDUE#
                 OR POSITION# OR AMINO ACID# OR MUTA?)


FILE 'BIOSIS'
           17730 168
           12696 169
           28858 170
           12140 171
           13175 172
           12244 173
           15198 174
          291597 RESIDUE#
          301673 POSITION#
          638433 AMINO
         1807875 ACID#
          490641 AMINO ACID#
                   (AMINO(W)ACID#)
          718494 MUTA?
L17         4991 (168 OR 169 OR 170 OR 171 OR 172 OR 173 OR 174)(10A)(RESIDUE#
                 OR POSITION# OR AMINO ACID# OR MUTA?)


FILE 'EMBASE'
           14413 168
           11701 169
           23123 170
           10728 171
           11379 172
           10718 173
           11806 174
          206857 RESIDUE#
          241614 POSITION#
          510899 AMINO
         1732184 ACID#
          382083 AMINO ACID#
                   (AMINO(W)ACID#)
          555262 MUTA?
L18         3902 (168 OR 169 OR 170 OR 171 OR 172 OR 173 OR 174)(10A)(RESIDUE#
                 OR POSITION# OR AMINO ACID# OR MUTA?)


FILE 'HCAPLUS'
           47113 168
           31909 169
          142898 170
           30998 171
           36913 172
           32771 173
           35597 174
          754567 RESIDUE#
          678235 POSITION#
         1241282 AMINO
         5455172 ACID#
          795705 AMINO ACID#
                   (AMINO(W)ACID#)
          668083 MUTA?
L19         8348 (168 OR 169 OR 170 OR 171 OR 172 OR 173 OR 174)(10A)(RESIDUE#
                 OR POSITION# OR AMINO ACID# OR MUTA?)


FILE 'NTIS'
```

```
              1367 168
               983 169
              3372 170
              1003 171
              1121 172
              1333 173
              1086 174
             11697 RESIDUE#
             54327 POSITION#
              7376 AMINO
             58108 ACID#
              5449 AMINO ACID#
                   (AMINO(W)ACID#)
             11033 MUTA?
L20            69 (168 OR 169 OR 170 OR 171 OR 172 OR 173 OR 174)(10A)(RESIDUE#
                   OR POSITION# OR AMINO ACID# OR MUTA?)


FILE 'ESBIOBASE'
              6499 168
              4763 169
             10455 170
              4522 171
              5020 172
              4634 173
              5066 174
            140437 RESIDUE#
            106166 POSITION#
            224506 AMINO
            528122 ACID#
            196249 AMINO ACID#
                   (AMINO(W)ACID#)
            358138 MUTA?
L21          2993 (168 OR 169 OR 170 OR 171 OR 172 OR 173 OR 174)(10A)(RESIDUE#
                   OR POSITION# OR AMINO ACID# OR MUTA?)


FILE 'BIOTECHNO'
              2509 168
              1821 169
              4814 170
              1689 171
              1867 172
              1729 173
              1973 174
             96204 RESIDUE#
             55352 POSITION#
            204625 AMINO
            371908 ACID#
            173749 AMINO ACID#
                   (AMINO(W)ACID#)
            242571 MUTA?
L22          2629 (168 OR 169 OR 170 OR 171 OR 172 OR 173 OR 174)(10A)(RESIDUE#
                   OR POSITION# OR AMINO ACID# OR MUTA?)


FILE 'WPIDS'
              9524 168
              3424 169
             69189 170
              8592 171
             10384 172
              5183 173
              7488 174
            239773 RESIDUE#
```

```
          1864251 POSITION#
           333972 AMINO
          1315654 ACID#
           125331 AMINO ACID#
                     (AMINO(W)ACID#)
            42644 MUTA?
L23          3420 (168 OR 169 OR 170 OR 171 OR 172 OR 173 OR 174)(10A)(RESIDUE#
                  OR POSITION# OR AMINO ACID# OR MUTA?)


TOTAL FOR ALL FILES
L24         39630 (168 OR 169 OR 170 OR 171 OR 172 OR 173 OR 174)(10A)(RESIDUE#
                  OR POSITION# OR AMINO ACID# OR MUTA?)


=> s l12 and l24
FILE 'MEDLINE'
L25             4 L1 AND L13


FILE 'SCISEARCH'
L26             5 L2 AND L14


FILE 'LIFESCI'
L27             2 L3 AND L15


FILE 'BIOTECHDS'
L28             8 L4 AND L16


FILE 'BIOSIS'
L29             2 L5 AND L17


FILE 'EMBASE'
L30             2 L6 AND L18


FILE 'HCAPLUS'
L31             9 L7 AND L19


FILE 'NTIS'
L32             0 L8 AND L20


FILE 'ESBIOBASE'
L33             0 L9 AND L21


FILE 'BIOTECHNO'
L34             2 L10 AND L22


FILE 'WPIDS'
L35             6 L11 AND L23


TOTAL FOR ALL FILES
L36            40 L12 AND L24


=> dup rem l36
PROCESSING COMPLETED FOR L36
L37            23 DUP REM L36 (17 DUPLICATES REMOVED)


=> d 1-2


L37   ANSWER 1 OF 23  BIOTECHDS COPYRIGHT 2009 THOMSON REUTERS on STN
TI    New nucleic acid encodes Bacillus licheniformis alpha
      -amylase variant, useful for laundry washing,
      dishwashing, textile desizing, processing a starch, hydrolyzing a
      biofilm, saccharifying starch, liquefying a starch, and baking;
          recombinant protein produced by vector mediated gene expression in
```

```
        host cell, useful in baking and textile industry
AU    AEHLE W; AMIN N S
AN    2009-01435  BIOTECHDS
PI    WO 2008153805 18 Dec 2008


L37  ANSWER 2 OF 23  SCISEARCH  COPYRIGHT (c) 2009 The Thomson Corporation  on
     STN
TI   Functional similarities of a thermostable protein-disulfide oxidoreductase
     identified in the archaeon Pyrococcus horikoshii to bacterial DsbA enzymes
SO   EXTREMOPHILES, (JAN 2007) Vol. 11, No. 1, pp. 85-94.
     ISSN: 1431-0651.
AU   Tozawa, Yuzuru (Reprint); Kuroita, Toshihiro; Kanno, Takuya; Kawai,
     Atsushi; Kawakami, Bunsei; Oka, Masanori; Endo, Yaeta
AN   2007:260759  SCISEARCH


=> log y
COST IN U.S. DOLLARS                            SINCE FILE      TOTAL
                                                  ENTRY        SESSION
FULL ESTIMATED COST                               45.07         45.29

STN INTERNATIONAL LOGOFF AT 12:25:28 ON 14 OCT 2009
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